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VOCATIONAL EDUCATION

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Montana Office of Public Instruction Fiscal Year 1985 Accountability Report

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SECTION I

ACCOMPLISHMENTS - VEA and JTPA COORDINATION

Results of VEA and JTPA Coordinating Efforts

The first full year of VEA/JTPA ended June 30, 1985. All in all, the year went much smoother and the coordination between VEA and JTPA was much better than it had been the prior year, when JTPA was in a transitional state from the old CETA legislation. JTPA rules and regulations were better understood and communicated. Program operators were more comfortable under the new act. However, vocational education was still not able to secure funding from any JTPA source except the 8 percent educational set aside provided by section 123 of the JTPA Act.

The State Director for Vocational Education sat as a voting member on the new nine-member State Job Training Coordinating Council and a representative of the JTPA administrative entity as appointed to the State Vocational Education Advisory Council.

The Office of Public Instruction (OPI) and the Department of Labor and Industry (DOL) agreed on the usage of 8 percent funds. One subgrant (5012.D) was given to OPI by DOL. OPI provided the required match from vocational education funds and local cash and in kind. In addition, OPI funded many of the JTPA Displaced Homemaker programs, which was not reported as a cash match for JTPA.

The OPI provided the training while the JTPA operators did the eligibility determination, referral and job placement.

The subgrant closed out at 99.9 percent of planned. A total of 1,457 participants were served. Of these, 1,220 were adults and 237 were youths. The total cost to serve these participants was \$901,139.72. JTPA cost for this training was \$546,029, or \$374.76 per participant. Vocational education paid \$365,826.01 and local districts contributed \$122,149.28. The true cost of training was \$618.49 per participant. JTPA was able to secure \$901,140 worth of training for its participants for a mere \$546,029. The average wage at placement was \$5.55 per hour. The adult wage at placement was \$6.37 per hour and the youth wage at placement was \$3.81.

There were 19 coordinated programs funded during this year. Of these, 18 programs provided direct services to JTPA participants and one provided indirect services. World of Work training, prevocational adult basic education and vocational skills training were the three types of programs offered. Four skills training programs were operated, which provided skills training to 409 participants. The rest of the participants were provided prevocational types of training programs.

The performance rates exceeded the JTPA performance standards with one program reporting a 97 percent placement rate.

SECTION II

MEN AND WOMEN ENTERING INTO TRAINING AND EMPLOYMENT

Secondary

The following four tables describe the secondary and postsecondary statistics of men and women entering into training and programs. Some of the tables compare fiscal year 1984 figures with fiscal year 1985 figures. The interpretation of Montana enrollment statistics must be done cautiously. The small number of enrollment in some programs can have a large effect on the calculated percentages. Another factor that appears to have an influence on the calculations is the drop in the number of male students taking trades and industry vocational programs. It is believed that the increased emphasis on academic course work is related to this factor. A large number of Montana high schools have enrollments of less than 100 students. Many trades and industry programs require a two-hour block of time. A small school will have schedule conflicts between the two-hour block of time for the trades and industry programs and required academic course work.

Fiscal Year 1984 Compared with Fiscal Year 1985
Female Secondary Percent Enrollment

| <u>Program</u> | <u>Female FY-84</u> | <u>Female FY-85</u> | <u>Percent Change</u> |
|-----------------------------|---------------------|---------------------|-----------------------|
| Agriculture | 12.7 | 16.5 | +3.8 |
| Distributive | 57.1 | 59.6 | +2.5 |
| Office Occupations | 78.9 | 75.4 | -3.5 |
| Occupational Home Economics | 88.2 | 81.0 | -7.2 |
| Trades and Industry | 8.2 | 6.3 | -2.5 |
| Industrial Arts | 7.8 | 10.9 | +3.1 |

("+" represents an increase and "-" a decrease)

It is believed that the two-year comparison shown in the above table does not reflect a significant shift in population statistics. The female dominance in the vocational programs of Office Occupations and Occupational Home Economics appears to have diminished. The male dominance in Agriculture appears to have been reduced. Since there is a similarity between trades and industry compared with industrial arts, the female percent enrollments tend to counter each other; consequently, no shift.

Fiscal Year 1984 Compared with Fiscal Year 1985
Female Secondary Percent Completers

| <u>Program</u> | <u>Female FY-84</u> | <u>Female FY-85</u> | <u>Percent Change</u> |
|-----------------------------|---------------------|---------------------|-----------------------|
| Agriculture | 8.4 | 10.9 | +2.5 |
| Distributive | 49.7 | 58.8 | +9.1 |
| Office Occupations | 83.3 | 80.5 | -2.8 |
| Occupational Home Economics | 72.2 | 65.2 | -7.0 |
| Trades and Industry | 4.5 | 2.6 | -1.9 |
| Industrial Arts | 4.8 | 10.3 | +5.5 |
| Consumer Homemaking | 70.5 | 71.0 | +0.5 |

("+" represents an increase and "-" a decrease)

The above comparisons do not reflect a significant change. The tendencies noted for the female secondary enrollment appear to be the same for the above table.

Postsecondary

The following is a summary of fiscal year 1985 vocational-technical center enrollments by head count based on the second quarter (fall) 12th day report.

Fiscal Year 1985 Vocational-Technical Center Head Count Enrollments--Male and Female

| <u>Program</u> | <u>Male</u> | <u>Female</u> |
|-----------------------------|-------------|---------------|
| Agriculture | 60 | 2 |
| Distributive | 43 | 42 |
| Office Occupations | 235 | 1144 |
| Health Occupations | 60 | 333 |
| Occupational Home Economics | 36 | 15 |
| Technical | 110 | 5 |
| Trade and Industry | 850 | 29 |
| TOTAL: | 1394 | 1570 |

The total percent male and female at the five vocational-technical centers for fiscal year 1984 was compared with fiscal year 1985 percentages. The enrollment ratio of male to female was the same for both years. There were generally small variations (about 2 percent) within the individual program areas. The percent males did make a 10 percent increase in the food service occupations (Occupational Home Economics) in fiscal year 1985; however, the increase may be attributed to the small number of students enrolled in the program.

The following table is a summary of fiscal year 1985 vocational-technical center completers.

Fiscal Year 1985 Vocational-Technical Center Male and Female Completers

| | <u>Male</u> | <u>Female</u> |
|-----------------------------|-------------|---------------|
| Agriculture and Forestry | 31 | 1 |
| Distributive | 8 | 10 |
| Office Occupations | 26 | 211 |
| Health Occupations | 35 | 210 |
| Occupational Home Economics | 5 | 2 |
| Technical | 47 | 7 |
| Trade and Industry | 399 | 7 |
| TOTAL: | 551 | 448 |

The above completer data was compared with fiscal year 1984. The fiscal year 1985 data shows a total reduction in female completers of 74 compared with 1984. Nearly the entire reduction can be traced to a reduction of female completers in Office Occupations. There was a decrease of 126 in the total number of completers in fiscal year 1985 compared with 1984.

SECTION III

ACTIVITIES OF LOCAL ADVISORY COUNCILS

Local Advisory Councils

In fiscal year 1985, 32 secondary schools received on-site evaluations. One of the evaluative instruments was concerned with advisory committees. The following table indicates the findings of two of the items.

| <u>Question</u> | <u>Yes</u> | <u>No</u> |
|---|------------|-----------|
| 1. Is the organization and utilization of advisory committee members outlined in writing (board policy)? | 8 | 24 |
| 2. Does the program evaluation have broad-based involvement (advisory committee, administration, teachers, students)? | 17 | 15 |

The Carl Perkins Vocational Education Act no longer requires local advisory councils; however, councils are encouraged. The Montana state regulations still require an advisory council; consequently, the existence of councils and their contributions are examined during the on-site evaluations. As noted in the above results, some schools were found lacking advisory councils. This deficiency was noted in the on-site exit interview and the written evaluations. The schools with the deficiencies responded in writing as to the corrections they have taken. The school districts indicated that the school boards have adopted written policies on the utilization of vocational advisory councils.

At the end of fiscal year 1985 each of the five vocational-technical centers responded to a self-evaluation. All centers indicated that "...all programs have active advisory committees with annual minutes on record."

SECTION IV

PROJECTED ENROLLMENTS COMPARED WITH ACTUAL

Secondary

The Montana 1985 State Plan (pages 11-84) projected a secondary vocational enrollment of 26,085, which is a duplicate count. For example, a student may enroll in vocational agriculture and office occupations; consequently, the one individual is counted twice. The actual 1985 count was 24,861.

It appears that the error is a result of increased emphasis and requirements for academic course work. An indication of this result is the large decrease of male students in grades 11 and 12 in the vocational offering of trades and industry. These vocational offerings usually occur in two-hour blocks for juniors and seniors. The small Montana high schools do not have flexibility in their course scheduling, thus the competition for time. The Office of Public Instruction staff that approve vocational programs have detected the trend to have an eight class period day. This trend may help to alleviate the competition for available times.

The following two tables are based on statewide results and are unduplicated counts. Part A enrollments are for grades 11 and 12. The second table, complete, is for grade 12 students. The third table depicts the fiscal year 1985 summary of the five Montana vocational-technical centers.

1985 MONTANA SECONDARY

PAGE 1

| PROGRAM DESCRIPTION | TOTAL COMPL | 1 M | 1 F | 2 M | 2 F | 3 M | 3 F | 4 M | 4 F | S M | S F |
|---|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| VE59 VEDS PART A COMPLETERS BY RACE AND SEX | | | | | | | | | | | |
| AGRICULTURAL MECHANICS, GENERAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AGRICULTURAL PRODUCTION, GENERAL | 198 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 172 | 26 |
| FORESTRY PRODUCTION & PROCESSING, GEN. | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 |
| SECRETARIAL & RELATED PROGRAMS, GEN. | 528 | 1 | 18 | 1 | 0 | 0 | 0 | 1 | 0 | 108 | 348 |
| CERICAL OFFICE PRACTICE | 514 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 73 | 412 |
| GENERAL MARKETING, OTHER | 187 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 102 |
| RADIO/TELEVISION BROADCASTING | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CONSUMER & HOME MAKING ECONOMICS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CHILD CARE & GUIDANCE MGT & SERV GEN. | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CLOTHING APPAREL, MGT & SERV GEN. | 13 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FOOD PRODUCTION, MGT & SERVICES, GEN. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| VOCATIONAL HOME ECONOMICS, OTHER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| UNEMPLOYMENT/INDUSTRIAL ARTS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CARPENTRY/CONSTRUCTION | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WELDING | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ELECTRICITY/ELECTRONICS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ELECTRIC POWER GENERATION | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GRAPHIC COMMUNICATIONS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| INDUSTRIAL CONSTRUCTION PROCESSING | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MANUFACTURING/MATERIALS PROCESSING | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CARPENTRY INCLUDING COMBINED PROGRAM | 117 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112 | 5 |
| WELDING | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 3 |
| ELECTRONICS EQUIP REPAIR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ELECTRONIC BODY REPAIR | 297 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 281 | 16 |
| AUTOMOTIVE MECHANICS | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 1 |
| SMALL ENGINE MECHANICS | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 | 0 |
| DRAFTING, GENERAL | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 |
| GRAPHIC & PRINTING COMMUNICATIONS | 37 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 1 |
| PHOTOCOPYING METALWORK, GEN. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MACHINING | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 2 |
| WELDING | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| INDUSTRIAL COOPERATIVE TRAINING | 2,093 | 27 | 32 | 2 | 3 | 1 | 1 | 8 | 1 | 1,053 | 763 |

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| <u>CIP</u> | <u>Program</u> | <u>Predicted*</u> | <u>Actual</u> |
|------------|-----------------------|-------------------|---------------|
| 48.0503 | Machine Tool Oper. | 45 | 37 |
| 48.0508 | Welding | 125 | 117 |
| 49.0202 | Heavy Equip. Operator | <u>26</u> | <u>21</u> |
| | TOTAL | 2,616 | 2,529 |

* 1985 Montana State Plan pages 11-12 to 11-16

The actual enrollment is less than projected. The reason for the lower Full Time Equivalent enrollment is because of the increase in part-time and adult students. A contributing factor of lower than anticipated enrollments may have been that people lack the financial resources to make a full-time commitment to vocational education.

The following is the projected and actual number of vocational-technical center program completers.

FY 84 VOCATIONAL-TECHNICAL CENTER
PROJECTED* AND ACTUAL COMPLETERS

| <u>CIP</u> | <u>Program</u> | <u>Projected</u> | <u>Actual</u> |
|------------|----------------------------------|------------------|---------------|
| 01 | Agriculture | 18 | 26 |
| 03 | Renewable Natural Resources | 8 | 6 |
| 06 | Midmanagement | 13 | 9 |
| 06 | Business and Office | 337 | 242 |
| 08 | Marketing and Distribution | 3 | 9 |
| 15 | Engineering-Related Technology | 25 | 54 |
| 17 | Allied Health | 225 | 245 |
| 20 | Vocational Home Economics | 33 | 7 |
| 46 | Construction Trades | 10 | 22 |
| 47 | Mechanics and Repairers | 309 | 290 |
| 48 | Precision and Production | 127 | 78 |
| 49 | Transportation & Material Moving | <u>17</u> | <u>11</u> |
| | TOTAL | 1,125 | 999 |

Many of the same reasons previously mentioned for the decline in vocational-technical enrollment also apply to the decline in the number of actual completers.

The Montana University System administers vocational offerings in the three community colleges. The colleges are located in Glendive, Kalispell and Miles City. One of the four-year collegiate institutions, namely Northern Montana College, offers two-year vocational programs.

SECTION V
MONTANA VOCATIONAL EDUCATION--INSTITUTIONS AND FUNDING

Introduction

In fiscal year 1985, Montana had 163 high school districts. Of this number, 121 high schools had state-approved vocational education programs. There are five vocational-technical centers located in Billings, Butte, Great Falls, Helena and Missoula. The Superintendent of Public Instruction has selective regulatory control over the high schools and center vocational programs.

The Montana State Occupational Information Coordinating Committee (SOICC) prepared the Montana Supply/Demand Report third edition which will be published June 30, 1986. The supply portion lists the above-named institutions as well as the supply produced by proprietary schools, vocational rehabilitation, Job Training Partnership Act (JTPA) and Job Corps. The number of persons vocationally trained each year is indicated by Classification of Instruction Program (CIP).

Secondary

Projected and actual vocational expenditures are shown below. The expenditures for FY 1985 are separated by the two-digit CIP code.

FY 85 SECONDARY FEDERAL AND STATE AND LOCAL PREDICTED
AND ACTUAL EXPENDITURES--CIP CODE

| <u>CIP</u> | <u>Program</u> | <u>State and Local</u> | |
|------------|-----------------------------|------------------------|-------------------|
| | | <u>Predicted*</u> | <u>Actual**</u> |
| | | FY 85 | FY 85 |
| 01 | Agribusiness & Agr. Prod. | 2,136,565 | 2,402,653 |
| 03 | Renewable Natural Resources | 56,466 | 64,931 |
| 07 | Business and Office | 3,262,255 | 5,134,231 |
| 08 | Marketing and Distribution | 402,011 | 480,253 |
| 20 | Vocational Home Economics | 2,976,200 | 3,365,444 |
| 21 | Industrial Arts | 1,456,616 | 2,094,715 |
| 46-48 | Trades and Industry | 2,628,228 | 2,929,120 |
| | | <u>12,918,341</u> | <u>16,471,347</u> |
| | | | <u>Federal</u> |
| 20 | Vocational Home Economics | 84,898 | 84,962 |

*pages 11-30 to 11-44 1985 State Plan

**Final Payment P 3.VE-2.5ML

Postsecondary

The following represents predicted and actual expenditures for the five vocational-technical centers in Montana. Federal and state/local expenditures are identified by two-digit CIP.

FY 85 PREDICTED AND ACTUAL--FEDERAL AND ACTUAL
FEDERAL AND STATE/LOCAL EXPENDITURES FOR THE FIVE
VOCATIONAL-TECHNICAL CENTERS

| <u>CIP</u> | <u>Program</u> | <u>Predicted*</u> | | <u>Actual</u> | |
|------------|-------------------|-------------------|--------------------|----------------|--------------------|
| | | <u>Federal</u> | <u>State/Local</u> | <u>Federal</u> | <u>State/Local</u> |
| 01 | Agriculture | -- | 226,888 | -- | 232,519.76 |
| 03 | Natural Resources | -- | 134,536 | -- | 104,399.16 |
| 06 | Bus. & Mgt. | 39,596 | 128,247 | 39,596 | 141,718.70 |
| 07 | Bus. & Office | 700,951 | 3,605,942 | 766,185 | 3,296,061.20 |
| 08 | Mkt. & Dist. | 9,016 | 55,543 | 9,016 | 74,792.48 |
| 15 | Engineering | 128,766 | 381,959 | 68,602 | 494,051.02 |
| 17 | Health | 183,163 | 1,172,399 | 183,163 | 1,688,429.14 |
| 20 | Voc. Home Ec. | 65,851 | 273,100 | 65,851 | 229,255.62 |
| 46 | T & I | 8,823 | 116,008 | 8,823 | 122,670.11 |
| 47 | Mech. & Repair | 20,048 | 1,994,731 | 20,048 | 2,519,595.90 |
| 48 | Precision Prod. | -- | 971,927 | -- | 735,348.98 |
| 49 | Transportation | 17,373 | 109,027 | 17,373 | 86,122.88 |
| 32 | General | -- | -- | -- | 268,345.05 |
| TOTAL: | | 1,173,587 | 9,170,307** | 1,178,651 | 9,993,310 ** |

*1985 State Plan pages 11-12 to 11-16.

** Includes federal in total.

Expenditures in CIP programs include equipment, instruction, administration support, student services, media and plant. Within the total expenditure is revenue from local district mill levy amounting to \$1,187,109.00.

Difference in projected expenditure due to increase in local district support.

SECTION VI
USES OF FUNDS

Percentages

The actual expenditures to mid-June 1986 will not meet all the required percentages. The funds are obligated and the required percentages will be attained by September 30, 1986. The FY 85 funds were carried over to FY 86 projects and will close June 30, 1986. The required percentages will be attained with these close-outs.

State/local funds equal or exceed 50 percent of annual plan expenditures for Section 102(a) activities on a statewide basis.

State/local funds totaled 16,471,347 which exceeded the federal funds of \$2,692,387.

At least 10 percent of allotments under Section 102(a) is expended for handicapped persons.

At present the percentage has not been attained; however, the percentage will be met with project close-outs.

At least 20 percent of allotments under Section 102(a) is expended for programs for disadvantaged persons, including limited English speaking persons.

At present the percentage has not been attained; however, the percentage will be met with project close-outs.

At least 15 percent of allotment under Section 102(a) is expended for postsecondary and adult programs.

The actual expenditure exceeded the required percentage.

No less than \$50,000 shall be expended from funds available under Section 120 of the Act for support of full-time personnel to perform functions relating to sex bias and sex discrimination.

The actual expenditure is \$50,000.

At least 20 percent of the federal funds under Section 130 shall be expended for vocational guidance and counseling.

At present the percentage has not been attained; however, the percentage will be met with project close-outs.

A state shall use at least one-third of funds available for programs of Section 150 to pay up to 90 percent of the cost of programs in economically depressed areas.

The actual expenditure met the requirement.

Match

The state and local match shown below is based on May 1986 data. Most of the projects have been closed; consequently, the state has the certified expenditure reports on local match. The state/local match exceeded the federal expenditure.

The State of Montana did meet the match requirements. It should also be noted that \$50,000 of federal funds spent under state administration did not require a state match (sex bias).

Maintenance of Effort

The Montana maintenance of effort was determined on a statewide basis. In fiscal year 1984, the state and local expenditures were \$14,646,144. In fiscal year 1985 state and local expenditures were \$16,471,347; consequently, Montana did maintain effort.

Subpart Use of Funds

The details on the expenditure and description of the various projects funded under the subparts are shown in Appendix A.

The following table is the use of federal and state funds for fiscal year 1985 administration.

EXPENDITURE OF STATE AND FEDERAL FUNDS FOR ADMINISTRATION--FY 1985

| <u>Subpart</u> | <u>Description</u> | <u>State</u> | <u>Federal</u> |
|----------------|----------------------|--------------|----------------|
| 120 | Disadvantaged | 10,000 | 10,000 |
| 120 | Handicapped | -- | -- |
| 120 | Sex Bias | -- | 50,000 |
| 120 | State Administration | 202,908 | 202,908 |
| 130 | State Administration | 44,500 | |
| 130 | Curriculum | -- | 5,000 |
| Section 140 | Special Needs | -- | 10,000 |
| Section 150 | Consumer/Homemaking | 10,000 | 10,000 |
| Section 102d | Planning | <u>9,000</u> | <u>9,000</u> |
| | TOTAL | 276,449 | 344,949 |

Source: Director of Budgeting--state funding was expended in the amount of \$39,565 more than was required for matching purposes.

FISCAL YEAR 1985 FUND EXPENDITURE
SECTION 150

CONSUMER HOME MAKING
DEPRESSED AREAS

| LEA | 90/10 for FY 85 Expenditures | |
|-------------------------|------------------------------|---------------|
| | <u>Projected</u> | <u>Actual</u> |
| Anaconda HS | 2,847 | 4,174 |
| Flathead HS | 3,750 | 5,000 |
| Bigfork HS | 2,075 | 3,255 |
| Cut Bank HS | 1,669 | 2,225 |
| Corvallis HS | 2,063 | 3,490 |
| Hot Springs HS | 1,058 | 1,320 |
| Lincoln Co. HS (Eureka) | 3,190 | 4,253 |
| Stevensville HS | 3,540 | 4,720 |
| Victor HS | 882 | 1,269 |
| Whitefish HS | 5,535 | 6,656 |
| Columbia Falls HS | <u>3,317</u> | <u>3,539</u> |
| TOTAL | 29,926 | 39,901 |

Expenditure Calculation FY 85

Available 119,823
X .33 = 39,901

FY 1985 HOME ECONOMICS PROJECTS
PROJECTED AND ACTUAL

| <u>LEA</u> | <u>Projected</u> | <u>Actual</u> |
|-----------------------|------------------|---------------|
| Dillon | 493 | 803 |
| Hardin | 814 | 1,524 |
| Lodge Grass | 176 | 618 |
| Chinook | 374 | 556 |
| Harlem | 510 | 756 |
| Townsend | 128 | 211 |
| Red Lodge | 83 | 177 |
| Bridger | 84 | 140 |
| Fromberg | 137 | 223 |
| Ekalaka | 434 | 180 |
| Great Falls | 1,169 | 1,936 |
| Cascade | 388 | 851 |
| Sand Coulee | 42 | 73 |
| Belt | 121 | 325 |
| Simms | 204 | 324 |
| Fort Benton | 179 | 281 |
| Big Sandy | 201 | 333 |
| Miles City | 217 | 348 |
| Scobey | 156 | 124 |
| Glendive | 132 | 359 |
| Baker | 235 | 134 |
| Plevna | 50 | 76 |
| Lewistown | 309 | 495 |
| Denton | 274 | 77 |
| Manhattan | 272 | 165 |
| Bozeman | 586 | 920 |
| Three Forks | 472 | 812 |
| Belgrade | 309 | 435 |
| Jordan | 564 | 361 |
| Browning | 414 | 1,046 |
| Box Elder | 648 | 1,084 |
| Havre | 615 | 1,027 |
| Rudyard | 413 | 370 |
| Whitehall | 1,057 | 771 |
| Boulder | 239 | 146 |
| Hobson | 129 | 214 |
| Arlee | 88 | 166 |
| Polson | 368 | 557 |
| St. Ignatius | 291 | 167 |
| Ronan | 405 | 737 |
| Helena | 1,707 | 3,066 |
| J & I | 47 | 38 |
| Troy | 339 | 476 |
| Libby | 688 | 1,043 |
| Sheridan | 144 | 103 |
| Twin Bridges | 369 | 219 |
| Circle | 493 | 175 |
| White Sulphur Springs | 240 | 122 |

| <u>LEA</u> | <u>Projected</u> | <u>Actual</u> |
|------------------|------------------|---------------|
| Missoula | 3,632 | 5,260 |
| Park | 439 | 770 |
| Clyde Park | 70 | 187 |
| Roundup | 147 | 85 |
| Melstone | 51 | 32 |
| Malta | 320 | 534 |
| Conrad | 290 | 440 |
| Broadus | 0 | 0 |
| Deer Lodge | 476 | 739 |
| Hamilton | 657 | 1,044 |
| Florence-Carlton | 35 | 113 |
| Sidney | 350 | 319 |
| Fairview | 157 | 286 |
| Culbertson | 91 | 205 |
| Wolf Point | 356 | 506 |
| Forsyth | 208 | 359 |
| Rosebud | 142 | 210 |
| Colstrip | 772 | 569 |
| Westby | 81 | 116 |
| Medicine Lake | 38 | 101 |
| Plentywood | 90 | 166 |
| Park City | 89 | 129 |
| Columbus | 354 | 612 |
| Absarokee | 144 | 240 |
| Big Timber | 285 | 548 |
| Choteau | 310 | 220 |
| Fairfield | 354 | 167 |
| Sunburst | 61 | 125 |
| Shelby | 612 | 902 |
| Hinsdale | 70 | 116 |
| Opheim | 437 | 626 |
| Glasgow | 222 | 378 |
| Nashua | 209 | 337 |
| Harlowton | 422 | 303 |
| Wibaux | 135 | 263 |
| Laurel | 482 | 743 |
| Broadview | 108 | 67 |
| Worden | 306 | 299 |
| Shepherd | 156 | 271 |
| Billings | 2,782 | 1,530 |
| TOTAL: | 33,747 | 45,061 |

Special Consumer and Homemaking Projects

| | | |
|--|--------|--------|
| University of Montana--C632 Needs of Economically Disadvantaged Families | 6,000 | 5,998 |
| Montana State University--C633 Vocational Program Improvement for Consumer and Homemaking Programs | 10,925 | 10,898 |
| University of Montana-T873 Montana Home Economics Teachers Network | 8,000 | 7,964 |

FISCAL YEAR 1985 FUND DISTRIBUTION
Subpart 2--Section 120
APPRENTICESHIP

| LOCATION | CIP | PROGRAM TITLE | PLANNED | | ACTUAL | | PARTICIPANTS | | PLANNED | | ACTUAL | | PLANNED | | ACTUAL | |
|-----------------|--------------|---------------------------|---------|-------|--------|-------|--------------|--------|-----------|-----------|-----------|-----------|---------|---------|------------|------------|
| | | | HOURS | HOURS | HOURS | HOURS | MALE | FEMALE | FEDERAL | FEDERAL | FEDERAL | FEDERAL | MATCH | MATCH | MATCH | MATCH |
| Billings | 46.9999A109D | Ironworkers | 432 | 432 | | | 17 | 0 | 3,551.04 | 3,551.04 | 3,551.04 | 3,551.04 | 44,369 | 44,369 | 30,275.92 | 30,275.92 |
| | 46.0503A108D | Plumbing & Pipefitting | 432 | 432 | | | 18 | - | 3,551.04 | 3,551.04 | 3,551.04 | 3,551.04 | 89,071 | 89,071 | 89,618.98 | 89,618.98 |
| | 46.0201A110D | Carpentry | 288 | 288 | | | 41 | 2 | 2,367.36 | 2,367.36 | 2,367.36 | 2,367.36 | 23,267 | 23,267 | 25,653.39 | 25,653.39 |
| | 48.0506A112D | Sheet Metal | 432 | 731 | | | 22 | - | 3,551.04 | 3,551.04 | 3,551.04 | 3,551.04 | 40,797 | 40,797 | 50,413.66 | 50,413.66 |
| Butte | 48.0506A134D | Sheet Metal | 144 | 144 | | | 7 | 0 | 1,183.68 | 1,183.68 | 1,183.68 | 1,183.68 | 7,208 | 7,208 | 4,108.00 | 4,108.00 |
| | 46.9999A140D | Ironworkers | 432 | 432 | | | 26 | 0 | 3,551.04 | 3,551.04 | 3,551.04 | 3,551.04 | 2,295 | 2,295 | 35,143.33 | 35,143.33 |
| | 48.0503A133D | Machinist | 288 | 288 | | | 16 | 0 | 2,367.36 | 2,367.36 | 2,367.36 | 2,367.36 | 1,147 | 1,147 | 3,789.00 | 3,789.00 |
| Great Falls | 48.0506A117D | Sheet Metal | 144 | 267 | | | 4 | 0 | 1,183.68 | 1,183.68 | 1,183.68 | 1,183.68 | 10,763 | 10,763 | 15,957.35 | 15,957.35 |
| | 46.0408A124D | Painters | 144 | 108 | | | 5 | 1 | 1,183.68 | 887.76 | 887.76 | 887.76 | 4,532 | 4,532 | 3,159.91 | 3,159.91 |
| | 46.0408A141D | Painters (Statewide) | 204 | 60 | | | 5 | 1 | 1,676.88 | 493.20 | 493.20 | 493.20 | 1,147 | 1,147 | 1,045.01 | 1,045.01 |
| | 46.0503A123D | Plumbing & Pipefitting | 432 | 440 | | | 29 | 1 | 3,551.04 | 3,551.04 | 3,551.04 | 3,551.04 | 20,945 | 20,945 | 38,340.65 | 38,340.65 |
| | 48.0503A119D | Machinists | 60 | 36 | | | 2 | 0 | 493.20 | 295.92 | 295.92 | 295.92 | 1,994 | 1,994 | 1,723.29 | 1,723.29 |
| | 47.0604A118D | Auto Mechanics | 60 | 12 | | | 6 | 0 | 493.20 | 98.64 | 98.64 | 98.64 | 1,713 | 1,713 | 916.83 | 916.83 |
| | 46.0302A143D | Electricians (Statewide) | 720 | 800 | | | 48 | 1 | 5,918.40 | 5,918.40 | 5,918.40 | 5,918.40 | 9,710 | 9,710 | 20,956.96 | 20,956.96 |
| | 47.0603A120D | Auto Body | 60 | 21 | | | 6 | 0 | 493.20 | 172.62 | 172.62 | 172.62 | 1,147 | 1,147 | 1,306.91 | 1,306.91 |
| Helena | 49.0202A105D | Heavy Equipment Operators | 432 | 432 | | | 30 | 6 | 3,551.04 | 3,551.04 | 3,551.04 | 3,551.04 | 35,235 | 35,235 | 77,132.00 | 77,132.00 |
| | 46.0201A101D | Carpentry (Statewide) | 1,152 | 1,152 | | | 45 | 3 | 9,469.44 | 9,469.44 | 9,469.44 | 9,469.44 | 38,364 | 38,364 | 48,795.80 | 48,795.80 |
| | 47.0603A142D | Auto Body | 144 | 60 | | | 18 | 0 | 1,183.68 | 493.20 | 493.20 | 493.20 | 570 | 570 | 3,530.00 | 3,530.00 |
| Miles City | 47.0501A125D | Power Plant Operator | 432 | 432 | | | 20 | 5 | 3,551.04 | 3,551.04 | 3,551.04 | 3,551.04 | 17,779 | 17,779 | 12,778.96 | 12,778.96 |
| | 47.9999A126D | Power Plant Mechanic | 432 | 387 | | | 10 | 4 | 3,551.04 | 3,181.14 | 3,181.14 | 3,181.14 | 12,302 | 12,302 | 13,287.75 | 13,287.75 |
| Missoula | 48.0506A129D | Sheet Metal | 144 | 144 | | | 7 | 0 | 1,183.68 | 1,183.68 | 1,183.68 | 1,183.68 | 2,686 | 2,686 | 1,857.81 | 1,857.81 |
| | 46.0503A136D | Plumbing & Pipefitting | 144 | 189 | | | 8 | 0 | 1,183.68 | 1,183.68 | 1,183.68 | 1,183.68 | 2,418 | 2,418 | 3,213.91 | 3,213.91 |
| Salish-Kootenai | 46.0201A137D | Carpentry* | 144 | 0 | | | 0 | 0 | 1,183.68 | 0 | 0 | 0 | 37,073 | 37,073 | 0 | 0 |
| TOTAL | | | | | | | 390 | 24 | 59,973.12 | 55,337.01 | 55,337.01 | 55,337.01 | 406,532 | 406,532 | 483,005.42 | 483,005.42 |

*Did not operate

SECTION VII

EVALUATION

Local Planning

During fiscal year 1985 the Office of Public Instruction maintained a toll free telephone number to give technical assistance to teachers, administrators and others. Most of these calls could be classified as planning effort. The office maintained a telephone log on these incoming toll free calls. For example, in October 1984 there were 220 calls to the Department of Vocational Education Services. The various professional and support staff of the department were able to help the local institutions with their planning efforts.

During this same time interval the staff made on-site evaluations and reviewed vocational program plans and self-evaluations of current offerings. These efforts resulted in new vocational plans to correct legal and program deficiencies. Student and shop safety received emphasis. Those schools that received the on-site evaluations also indicated the implementation of their plans.

Student Achievement

Montana does not have a statewide competency testing program. The secondary and postsecondary youth groups such as VICA, FFA, OEA, DECA and FHA are an integral part of the various vocational programs.

The VICA (Vocational Industrial Clubs of America) had the Montana VICA Skill Olympics on April 15, 1985. Twenty-eight secondary students took the written automotive test. The mean score was 62.36, with a standard deviation of 14.0. This mean was 6.5 points lower than in fiscal year 1984. There appears to be a wide variance in the 1985 scores as indicated by the standard deviation. The 10 postsecondary students who took the written test had a mean score of 79.4, with a standard deviation of 6.6. This mean score was 1.5 points higher than fiscal year 1984 results.

The FFA (Future Farmers of America) had nine district contests between November 1984 and March 1985. The following is the approximate number of participants: Parliamentary Procedure 600, Livestock 300, Agronomy and Soil 300, Agricultural Management 300, Agricultural Mechanics and FFA Test 450. In April 1985, the state level contests were held in Great Falls. The following number of participants competed in the following: Livestock 203, Agricultural Mechanics 159, Agricultural Management 224, Parliamentary Procedure 26, and Agronomy 175.

The DECA (Distributive Education Clubs of America) had their Career Development Conference in March 1985. There were 205 students who took the test on economic literacy sponsored by the Joint Council on Economic Education. For the past five years the Montana students have scored 30 percent above the national norm.

Marketing Education students have reached minimum or above competency levels in the following occupational areas: Advertising Services and Display, Apparel and Accessories, Automotive Products and Services, Food Marketing, Finance and Credit, General Marketing, General Merchandising, and Restaurant Marketing/Management. Each of the occupational area tests contained test items relating to selling, human relations and a common core of marketing principles.

Oral and written entrepreneurship knowledge, skills, and attitudes and experience were presented by 20 Marketing Education students. Two students were selected to represent Montana at the national level Entrepreneurship Competitive Events at the National DECA Career Development Conference. In addition, a student was selected to represent Montana at the Career Development Conference in each of the eight contest areas listed above.

The Montana OEA (Office Education Association) has statewide competitive events for the secondary students. There are two general minimal standards that apply to the competitive events. One standard is that business/office production work must be "mailable." Other events that may address important job-related skills, such as speaking, have a minimum score of 70 percent.

In fiscal year 1985 the 280 OEA students competed in 33 test events. The combination of students and events results in 1,200 contest events. To receive state recognition and be eligible for national competition, a student must obtain a score of 90 percent or better. There were 392 placings that met the state recognition criteria. At the National OEA Leadership Conference, 11 of Montana's 30 participants placed in the top 20 places in the various contest events.

During fiscal year 1985 the Montana Association of Future Homemakers of America conducted 15 home economics proficiency contests at its State Leadership Conference, March 25-27, 1985. A total of 621 students participated in the events, with each student limited to one individual proficiency event. One student per event may enter national competition if they score 98 percent or above on the state level examination. Seven students entered national level competition and each student scored at or above the 80th percentile.

Special Populations

During fiscal year 1985 there were 19 disadvantaged projects which served the needs of 1,028 individuals. A Missoula County High School project served the needs of the Limited English Speaking students. These students were from families that came from Southeast Asia. Additional details on the disadvantaged projects may be found in the Appendix.

There were 15 handicapped projects that served the needs of 365 individuals. Additional details on the handicapped projects may be found in the Appendix.

Two projects were funded under Section 104. Both projects served the needs of Native Americans.

Evaluation for Program Improvement

In fiscal year 1985, 32 secondary schools received on-site evaluations. One of the evaluative instruments used is titled "An Evaluation for Vocational Education Programs in Montana." This 33-item instrument and specific program instruments were used at each site. Generally the Department Executive Assistant served as the on-site team leader and would review the administrative aspects of vocational education programs. Other team members were vocational education staff subject matter specialists of the Office of Public Instruction. At the conclusion of the on-site evaluation, an exit conference was held with the school's administrators, vocational teachers and advisory committee members. At the conference, information was shared and technical assistance was offered to the school. Several weeks after the on-site, a detailed written report was

sent to the school. Copies and comments of all the completed evaluation instruments were sent to the school. The school was to respond in writing of the corrective actions planned and/or implemented. These reports were shared with all team members. If the corrective actions were insufficient, additional technical assistance was given to the school.

While all schools receiving on-site evaluations fully comply with appropriate rules and regulations in any given year, trends over the past four years have been noted. Some trends are:

1. Increased effective use of advisory committees.
2. More efficient and effective use of vocational education shop organization, storage and management.
3. There has been increased emphasis on safety in the vocational programs. The most notable example is with the business/office programs. The hazards of loose electrical cords for typewriters and computers have been greatly reduced.
4. Access to vocational programs has been increased. A partial explanation of this success is through revised curricula.
5. Nearly all the vocational curricula is written with measurable objectives.
6. Nearly all the school district school boards have a written non-discrimination policy with grievance procedures.
7. Vocational teachers and school administrators have placed more emphasis on school-community communications and public relations.
8. In general, youth group membership has remained stable and/or increased slightly; however, participation in statewide contests and events has increased.

At the conclusion of the 1984-85 program year, each of Montana's five vocational-technical centers completed a self-evaluation. The evaluation instrument had 51 statements which each center addressed. In the previous year, there were three statements which had a frequency of being checked as a deficiency by two centers. At the end of the 1984-85 year, four statements were checked as deficiencies by two centers.

One of the three deficiencies from fiscal year 1984 was not corrected and three new deficiencies occurred which had a frequency count of two. The four deficiencies are:

- Is there a program for new instructors established to inservice new instructors?
- Does the center notify the public annually, through newsprint, that nondiscrimination practices are in effect for students and employees?
- Is the curricula competency based?
- Does equipment represent that found in the industry for which students are preparing to acquire jobs?

Student and Employer Follow Up

Secondary

In April 1985 all Montana senior secondary vocational education students completed a blue card, which provided past vocational course work completed and future mailing address. The card collected a self-reporting on the number of semesters of specific vocational education course work. In addition, the students were to report a probable mailing address for April 1986. Useable cards were obtained on 2,093 students.

The April 1985 blue card information was post coded with students having four or more semesters of a specific vocational program being determined a completer. Those with less course work were determined to be leavers. A student follow-up form was sent to all completers and leavers with a self-addressed, prepaid mailing envelope. Students were given the opportunity of allowing or not allowing the state to contact their employer.

The next two tables are the summary of the 1984-85 completers/leavers who provided follow-up information in May 1986. A comparison of the limited responses was made between fiscal year 1984 with 1985 data. The number responding in fiscal year 1985 was less than the year 1984. The comparisons were similar with two changes of note. The employed related increased 4 percent compared with the fiscal year 1984 results of 16 percent. The percent who sought additional education in fiscal year 1985 declined 5 percent over the 1984 level of 54 percent. With small numbers reporting, it is not possible to make any statistical inference.

STUDENT FOLLOW-UP LEAVER REPORT PART A-2

| CIP DESCRIPTION | TOTAL | FULL MIL | EMP REL | EMP NH | ADUL ED | UN-EMPL | MIL NPAE | STAT UNKN |
|---|-------|----------|---------|--------|---------|---------|----------|-----------|
| AGRICULTURAL MECHANICS, GENERAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AGRICULTURAL PRODUCTION & PROCESSING | 81 | 0 | 2 | 20 | 10 | 1 | 0 | 69 |
| FORESTRY PRODUCTION & PROCESSING GEN. | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 3 |
| SECRETARIAL & RELATED PROGRAMS, GEN. | 174 | 0 | 2 | 3 | 15 | 2 | 1 | 151 |
| CERICAL OFFICE PRACTICE | 90 | 0 | 7 | 3 | 11 | 2 | 1 | 179 |
| GENERAL MARKETING, OTHER | 7 | 0 | 1 | 2 | 4 | 1 | 0 | 82 |
| RADIO/TELEVISION BROADCASTING | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 5 |
| CONSUMER & HOME MAKING ECONOMICS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CHILD CARE & GUIDANCE MGT & SERV GEN. | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| FOOD PRODUCTION, MGT & SERV GEN. | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 1 |
| FOOD PRODUCTION, MGT & SERVICES, GEN. | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| VOCATIONAL HOME ECON & OTHER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OCCUPATIONALLY ORIENTED INDUSTRIAL ARTS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DRAFTING/CONSTRUCTION | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DRAFTING | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ELECTRICITY/ELECTRONICS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENERGY POWER, TRANSPORTATION | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GRAPHIC COMMUNICATIONS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MANUFACTURING/MATERIALS PROCESSING | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHER, INCLUDING COMBINED PROGRAM | 21 | 0 | 0 | 0 | 2 | 0 | 0 | 17 |
| CARPENTRY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ELECTRICAL & ELECTRONICS EQUIP REPAIR | 17 | 0 | 0 | 0 | 2 | 0 | 0 | 15 |
| ELECTRICAL BODY REPAIR | 67 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |
| AUTOMOTIVE MECHANICS | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| SMALL ENGINE REPAIR | 24 | 0 | 1 | 0 | 0 | 0 | 0 | 23 |
| DRAFTING & GENERAL COMMUNICATIONS | 17 | 0 | 1 | 1 | 0 | 0 | 0 | 15 |
| WELDING & METALWORK GEN. | 15 | 0 | 0 | 2 | 1 | 0 | 0 | 12 |
| MACHINE TOOL OPERATION | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| INDUSTRIAL COOPERATIVE TRAINING | 757 | 3 | 16 | 18 | 57 | 7 | 2 | 654 |

Full MIL = Military Service Full Time

IMP REL = Employed Related to Training

IMO NR = Employed Not Related to Training

ADPL ED = Additional Education

UN EMPPL = Unemployed

NILF = Not in Labor Force

STAT UNKN = Status Unknown

STUDENT FOLLOW-UP COMPLETER REPORT PART A-1

CIP DESCRIPTION

| CIP DESCRIPTION | TOTAL | FULL MIL | EMP REL | EMP NR | AUDL ED | UN- EMPL | WIFE NPIE | STAT UNKN |
|---|-------|-------------|------------|-----------|------------|-------------|--------------|--------------|
| AGRICULTURAL MECHANICS, GENERAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AGRICULTURAL PRODUCTION, GENERAL | 198 | 0 | 0 | 2 | 10 | 0 | 0 | 175 |
| FORESTRY PRODUCTION & PROCESSING, GEN. | 15 | 0 | 0 | 0 | 1 | 0 | 1 | 13 |
| SECRETARIAL & RELATED PROGRAMS, GEN. | 528 | 1 | 17 | 12 | 58 | 5 | 2 | 433 |
| GENERAL OFFICE PRACTICE | 514 | 1 | 19 | 17 | 69 | 4 | 2 | 404 |
| GENERAL MARKETING, OTHER | 187 | 0 | 3 | 5 | 0 | 2 | 2 | 166 |
| RADIO/TELEVISION BROADCASTING | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| CONSUMER & HOMEWORK, ECONOMICS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CLOTHING & GUIDANCE, MGT & SERV, GEN. | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 4 |
| FOOD PRODUCTION, MGT & SERVICES, GEN. | 13 | 0 | 0 | 0 | 0 | 1 | 0 | 12 |
| VOCATIONAL HOME ECON, OTHER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OCCUPATIONALLY ORIENTED INDUSTRIAL ARTS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CARPENTRY/CONSTRUCTION | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WELDING | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WELDING/ELECTRONICS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ELECTRICITY/ELECTRONICS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TRANSPORTATION | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GRAPHIC COMMUNICATIONS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MANUFACTURING/MATERIALS PROCESSING | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHER INCLUDING COMBINED PROGRAM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CARPENTRY & ELECTRONICS EQUIP REPAIR | 117 | 5 | 4 | 9 | 4 | 0 | 0 | 99 |
| ELECTRICAL & ELECTRONICS EQUIP REPAIR | 40 | 0 | 1 | 0 | 2 | 0 | 0 | 37 |
| Automotive Body Repair | 297 | 0 | 19 | 12 | 15 | 6 | 1 | 246 |
| Automotive Mechanics | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Small Engine Repair | 59 | 0 | 2 | 1 | 2 | 0 | 0 | 56 |
| DRAFTING & PRINTING COMMUNICATIONS | 37 | 1 | 1 | 0 | 3 | 0 | 0 | 33 |
| PRESSION METALWORK, GEN. | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 2 |
| MACHINE TOOL OPERATION | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| WELDING | 0 | 3 | 0 | 2 | 0 | 0 | 0 | 3 |
| INDUSTRIAL COOPERATIVE TRAINING | 2,093 | 16 | 71 | 57 | 175 | 22 | 13 | 1,739 |

Full MIL

= Military Service Full Time

EMP REL

= Employed Related to Training

EMP NR

= Employed Not Related to Training

AUDL ED

= Additional Education

UN EMPL

= Employed

WIFE

= Not in Labor Force

STAT UNKN

= Status Unknown

On June 20, 1986, the number of returns from secondary completer employers was tabulated. The results are shown below, aggregated by broad two-digit CIP classifications.

**EMPLOYER FOLLOW UP ON SCHOOL YEAR 1984-85
MEAN SCORES--SECONDARY STUDENTS--COMPLETERS**

| Training Area | Number Students Rated | Technical Knowledge | Work Attitude | Work Quality | Overall Rating |
|--------------------|-----------------------------|------------------------|------------------|-----------------|-------------------|
| Agricultural Mech. | 1 | 3.0 | 4.0 | 4.0 | 4.0 |
| Mkt. & Dist. | 1 | 4.0 | 4.0 | 4.0 | 5.0 |
| Bus. & Office | 19 | 4.0 | 3.9 | 3.9 | 4.0 |
| T & I | 11 | 4.0 | 3.6 | 3.7 | 3.6 |

Numerical Values:

5 = Very Good
4 = Good
3 = Average
2 = Poor
1 = Very Poor

The following table is the secondary completer wages as reported by the students in May 1986. These students completed their training in June 1985.

**MONTANA SECONDARY COMPLETER WAGES FOR
THE SCHOOL YEAR FISCAL YEAR 1985**

| Training Area | No. Male | No. Female | Male Mean Per Hour | Female Mean Per Hour |
|------------------------|----------|------------|-----------------------|-------------------------|
| Agr. Production | 5 | 1 | 4.43 | 3.55 |
| Sec. and related | 1 | 12 | 8.33 | 4.27 |
| Clerical Office | 2 | 15 | 3.35 | 4.58 |
| Marketing | 2 | 1 | 3.97 | 4.00 |
| Auto Mechanics | 14 | 1 | 4.10 | 5.00 |
| Drafting | 2 | -- | 3.60 | -- |
| Precision Metalwork | 1 | -- | 4.35 | -- |
| Electrical & Electron. | 3 | -- | 4.50 | -- |

Postsecondary

The next three tables are concerned with postsecondary completers.

FY 1985 VOCATIONAL-TECHNICAL CENTER COMPLETER FOLLOW-UP REPORT
EMPLOYMENT STATUS FOLLOW UP BY TWO-DIGIT CIP

| CIP * | COMPLETERS SINGLE SAMPLE | MILITARY SERVICE | EMPLOYED RELATED TO TRAINING | EMPLOYED NOT RELATED TO TRAINING | PURSuing ADDITIONAL EDUCATION | UNEMPLOYED SEEKING EMPLOYMENT | NOT IN LABOR FORCE | STATUS UNKNOWN |
|-----------------|--------------------------------|---------------------|------------------------------------|--|-------------------------------------|-------------------------------------|--------------------------|-------------------|
| 01 Agr. | 26 | | 23 | 1 | | | | 2 |
| 03 Nat. Resrc. | 6 | | 1 | | | 3 | | 2 |
| 06 Bus. & Mgt. | 8 | | 4 | | 3 | | | 1 |
| 07 Bus. & Off. | 229 | | 111 | 19 | 5 | 26 | 7 | 61 |
| 08 Mkt. & Dist. | 9 | | 2 | | | 1 | | 6 |
| 15 Engineering | 45 | | 14 | 5 | 6 | 3 | 1 | 16 |
| 17 Health | 204 | 18 | 136 | 12 | 10 | 7 | 6 | 15 |
| 20 Voc. H.E. | 3 | | 3 | | | | | |
| 46 I and I | 22 | | 9 | 4 | 1 | 3 | | 5 |
| 47 Mech. & Rep. | 295 | | 116 | 40 | 18 | 12 | 2 | 107 |
| 48 Prec. Prod. | 87 | | 39 | 4 | 6 | 5 | 1 | 32 |
| 49 Insnptn. | 11 | | 3 | | | | | 8 |
| TOTAL | 945 | 18 | 461 | 85 | 49 | 60 | 17 | 255 |

*CIP Classification of Industrial Program

The above data does not appear logical when compared with 1984 data. The fiscal year 1985 data depicts a higher percent of the completers who found employment related to their training. This fact is hard to explain with the slow economy in Montana. A possible explanation is that completers found employment out of state. One fact was found to prove that possible explanation. Aviation Mechanics did find high-paying employment working on the B-1 Bomber in California.

1985 MONTANA VOCATIONAL-TECHNICAL CENTER
COMPLETER REPORTED WAGES

| <u>CIP*</u> | <u>Program</u> | <u>Number</u> | <u>Mean \$ Per Hour</u> |
|-------------|-------------------------------|---------------|-----------------------------|
| 01.0201 | Agri-Diesel Mechanics | 9 | 6.02 |
| 03.0501 | Forestry Technology | 1 | 10.50 |
| 06.1401 | Mid-Management | 3 | 7.00 |
| 08.0102 | Fashion Merchandising | 2 | 4.00 |
| 17.0101 | Dental Assistant | 9 | 4.94 |
| 17.0605 | Practical Nurse | 56 | 6.05 |
| 17.0602 | Nurse Assistant | 14 | 5.07 |
| 17.0210 | Respiratory Therapy | 16 | 7.63 |
| 17.0211 | Surgical Technology | 8 | 6.00 |
| 20.0403 | Dinner/First Cook | 7 | 4.87 |
| 07.0101 | Accounting/Bookkeeping | 19 | 5.20 |
| 07.0301 | Business Data Processing | 7 | 5.51 |
| 07.0702 | Clerk/Typist | 10 | 4.88 |
| 07.0305 | Computer Operator/Programmer | 1 | 6.50 |
| 07.0302 | Data Entry/Computer Operator | 16 | 5.81 |
| 07.0303 | Data Entry Operator | 2 | 4.50 |
| 07.0698 | Information Processing | 2 | 6.30 |
| 07.0699 | Legal Typist/Transcriptionist | 1 | 5.77 |
| 07.0707 | Medical Receptionist | 4 | 4.75 |
| 07.0699 | Medical Transcriptionist | 1 | 4.50 |
| 07.0606 | Secretary--Executive | 3 | 4.18 |
| 07.0604 | Secretary--Legal | 11 | 5.73 |
| 07.0605 | Secretary--Medical | 7 | 5.74 |
| 07.0607 | Secretary--Stenographer | 8 | 5.76 |
| 07.0608 | Word Processing | 20 | 5.16 |
| 47.0201 | Air Conditioning and Refrig. | 4 | 5.46 |
| 47.0603 | Auto Body Repair | 2 | 7.00 |
| 47.0604 | Auto Mechanics | 6 | 4.50 |
| 47.0602 | Aviation Maint. Technician | 15 | 10.09 |
| 46.0201 | Carpentry | 11 | 5.93 |
| 15.0201 | Civil Engineering Technology | 1 | 5.91 |
| 48.0508 | Combination Welding | 6 | 6.69 |
| 47.0605 | Diesel Mechanics | 9 | 6.48 |
| 48.0101 | Drafting | 7 | 5.86 |
| 15.0302 | Electrical Technology | 2 | 6.30 |
| 15.0303 | Electronics Technology | 12 | 6.96 |
| 47.0302 | Heavy Equipment Mechanic | 6 | 5.00 |
| 49.0202 | Heavy Equipment Operator | 3 | 7.50 |
| 47.0105 | Industrial Electronics | 14 | 7.79 |
| 48.0503 | Machine Shop Technology | 5 | 6.11 |
| 47.0699 | Truck & Diesel Mechanic | 3 | 9.67 |

*CIP Classification of Instruction Program

The number of students that reported their wages was small; thus there was no differentiation made between the wages reported between the men and women. The limited data of mean wages of the men compared with the women in the same program did not appear to be significant.

VOCATIONAL-TECHNICAL CENTER EMPLOYER FOLLOW UP
ON FY 85 COMPLETERS*

| CIP** | No. of Employers | Technical Knowledge | Work Attitude | Work Quality | Overall Rating |
|-------------------|---------------------|------------------------|------------------|-----------------|-------------------|
| 01 Agriculture | 1 | 4.0*** | 4.0 | 4.0 | 4.0 |
| 06 Bus. & Mgt. | 2 | 4.0 | 4.5 | 4.5 | 4.0 |
| 07 Bus. & Office | 48 | 3.9 | 4.2 | 4.0 | 4.0 |
| 15 Engineering | 7 | 3.8 | 4.3 | 4.1 | 3.8 |
| 17 Health | 66 | 4.1 | 4.3 | 3.8 | 4.1 |
| 20 Voc. Home Ec. | 4 | 3.8 | 3.8 | 3.8 | 3.8 |
| 47 Mech. & Repair | 7 | 4.0 | 4.4 | 3.9 | 4.0 |
| 48 Precision Prod | 2 | 4.5 | 5.0 | 4.5 | 4.0 |

* Helena Vocational-Technical Center did not supply employer follow-up information.

** CIP=Classification of Information Program

*** See page 24 for numerical values.

There were few employers who responded to the postsecondary follow up. The data for fiscal years 1984 and 1985 were aggregated by the two-digit CIP. There were only two CIP areas that had adequate response rate. The two areas which had more than 38 respondents over the two years were business and office and health related. For both years the health-related area received the highest "Overall Rating." It is assumed that employers are pleased with the vocational-technical student completers.

SECTION VIII

Montana Council on Vocational Education

The Montana State Council on Vocational Education did not write recommendations for vocational education for fiscal year 1985. The council will use the provisions of the rules and regulations implementing the Carl Perkins Vocational Education Act (FR 401.16b9i A and B). These regulations provide for "At least once every two years..." Consequently, recommendations will be written for fiscal year 1986.

SECTION IX

Exemplary Programs

The State of Montana did not find any exemplary projects in fiscal year 1985.

A P P E N D I X A

SUMMARY: FY '85 FEDERAL PROJECTS

BASIC GRANT
SUBPART 2, SECTION 120

*Includes indirect costs
**\$4500 = D287; \$500 = Displaced Homemaker (DH05)

| DISADVANTAGED | DESCRIPTION | GRANT | MATCH | TOTAL BUDGET | TOTAL AWARDED | ACTUAL MATCH | TOTAL PROJECT \$ | TARGET POP. | ACTUAL POP. |
|---|--|--------|-----------|--------------|---------------|--------------|------------------|-------------|-------------|
| The Living Office 85-6004-03-20-16-0273 Mountain View School Helena | Project funds will purchase 8 computers and provide operating funds for a course which will teach modern office skills to incarcerated female juveniles. | 27,976 | 37,251 | 65,227 | 24,565.08 | 37,251 | 61,816.08 | 35-50 stud. | 30 stud. |
| Alternative Education 85-4706-03-20-17-0274 Butte School District 1 | District 1 will develop an alternative educational program for high school drop-out students to enable them to return to high school or enroll in a Vo-Tech school. A teacher will be hired. | 33,982 | 33,982 | 67,964 | 33,982 | 33,928 | 67,910 | 96 stud. | 30 stud. |
| Pilot Program for Poverty Stricken Young Adults in Agriculture 85-5703-03-20-17-0275 Montana State University, Bozeman | The project will identify Vo-Ag programs in five poverty areas and assist Vo-Ag teachers meet educational needs of young employed adults whose net income is below poverty level. MSU will provide equipment and other resources to pilot sites. | 26,841 | 26,841 | 53,682 | 24,609.47 | 26,298.99 | 50,908.46 | 25 stud. | 242 stud. |
| Computer-Assisted Instruction Compassing Vo-Ed Programs 85-0704-03-20-16-0276 Cascade Public Schools | Project funds will provide additional material and equipment to help special needs students 1) master basic vocational concepts, 1) use microwave ovens, and 3) use a word processor. | 20,500 | 20,627.41 | 41,127.41 | 16,302.65 | 20,628.00 | 36,930.65 | 107 stud. | 30 stud. |
| Welding & Fabrication Training Program for Handi- capped & E.O. Students 85-2702-03-20-16-0277 Troy High School | The project will train 4 physically handicapped or educationally dis-advantaged students for a specific job to qualify for employment in a proposed local manufacturing firm. | 19,503 | 29,415 | 48,918 | 19,041.50 | 29,985.26 | 49,026.76 | 4 stud. | 16 stud. |
| Tape Cassette Learning Center Program 85-3502-03-20-16-0279 Winnett Public Schools | This industrial arts program consists of 1) a tape cassette learning center program and 2) a vocational career guidance program - both for learning disabled students. | 8,556 | 36,625 | 45,181 | 8,556 | 36,625 | 45,181 | 20 stud. | 11 stud. |
| Secretarial Training Program 85-5904-03-20-18-0280 Salish Kootenai College Pablo | The college will hire 14 staff and purchase typewriters to conduct secretarial and business classes for disad- vantaged students. Project will include counseling and job seeking skills. | 36,866 | 37,964 | 74,830 | 36,718.94 | 40,299.00 | 77,017.94 | 18 stud. | 26 stud. |
| Secretarial Admin/Science Program 85-5905-03-20-17-0282 Blackfeet Community College Browning | Funds will hire an instructor and purchase equipment to conduct a beginning secretarial science/administration program for 15 disadvantaged students. The project will include job placement assistance. | 36,085 | 36,292 | 72,377 | 36,085 | 36,292 | 72,377 | 35-40 stud. | 30 stud. |

Report satisfactory. Note discrepancy in target student population.

| | 24,200 | 25,851 | 50,051 | (awarded) 24,171.00 | (match) 28,840.00 | (total) 53,011.00 | (Target) 15-20 stud | (Actual) 31 stud. |
|---|---|----------|-----------|------------------------|----------------------|----------------------|---------------------------|-------------------------|
| Police Science Enforcement Training Program 85-5103-03-20-18-0284 (Northern Cheyenne) Oull Knife Memorial College Lane Deer | The college will hire an instructor for a police science/law enforcement program. Students completing the program will be prepared for the occupation of law enforcement officer. | | | | | | | |
| Prevocetional Pilot Program 85-6103-03-20-17-0285 Missoula Vo-Tech | 39,460 | 46,068 | 85,528 | 39,320.46 | 45,788.82 | 85,109.28 | 176 stud. | 88 stud. |
| (?) Report consists of prediction statistics. | | | | | | | | |
| Introduction to Computer Word Processing for the Displaced Homemaker 85-6260-03-20-18-0286 Missoula YMCA (Women in Transition) | 6,075.84 | 6,080.71 | 12,156.55 | 6,686.80 | 6,905.98 | 13,592.78 | 40 stud. | 8 stud. (D.H.) |
| Ray Brown: objectives not met. | | | | | | | | |
| Career Development Training for Displaced Homemaker 85-6269-03-20-18-0287 Billings Womens' Center | 5,000** | 5,000 | 10,000 | 5,000.00 | 5,000.00 | 10,000.00 | 108 stud. | 169 stud. |
| Report objectives met. | | | | | | | | |
| Computer Literacy Course for Development of Pre-Employment Skills and Job Readiness 85-6265-03-20-18-0288 Career Consultants, Helena (Career Training Institute) | 7,000 | 7,000 | 14,000 | 6,997.97 | 7,012.13 | 14,010.10 | 30-50 stud. | 34 stud. (D.H.) |
| Objectives met; results questionable. | | | | | | | | |
| Proposal for Computer Services 85-5803-03-20-18-0289 Career Development Program Miles Community College, Miles City | 7,059 | 8,660 | 15,719 | 7,034.77 | 5,005.00 | 12,039.77 | 60 stud. | 24 stud. (D.H.) |
| O.K., except didn't purchase word processing or spread sheet. | | | | | | | | |
| Homemaker-Hom Health Aide Training for Displaced Homemaker 85-5802-03-20-18-0292 Women in Transition Flathead Valley Community College Kalispell | 7,000 | 9,827 | 16,827 | 6,233.83 | 6,437.08 | 12,670.91 | 10 stud. | 10 stud. (D.H.) |
| 10 stud. enrolled; 7 completed; 3 placements. | | | | | | | | |
| Personal Development of Displaced Homemaker 85-6272-03-20-18-0293 District VI HRDC Lewistown | 5,000 | 5,064 | 10,064 | 3,887.47 | 4,230.26 | 8,117.73 | 90 stud. | 96* stud. (D.H.) |
| Report objectives met, *duplicated count? | | | | | | | | |

| | | (awarded) | (match) | (total) | (target) | (actual) |
|---|--|-----------------------------|-----------------------------|-----------------------------|--|----------|
| Classroom Aides for Handicapped Students 85-1522-04-19-16-H264 Whitefish Schools | Project funds will hire 2 aides to assist handicapped students in their vocational classes. | 22,376 | 22,376 | 44,752 | No report. No evaluation. | |
| Vocational Special Needs Coordinator and Job-Site Trainer 85-2502-04-19-16-H265 Helena Special Education | A vocational special needs coordinator and a job-site trainer will be employed to operate a comprehensive vocational training program including on-the-job training, job simulations, job preparation, contracted services and an industrial arts class. (continuation) | 39,315 | 48,760 | 88,075 | Overall good. 6 goals not met. | |
| Restaurant Skills Vocation Program (Special Needs) 85-1505-04-19-16-H266 Flathead High School Kalispell | This project is an expansion of a program to train handicapped students in higher level jobs in food service industries by operating a restaurant at Flathead High School. | 16,482 | 21,168 | 37,650 | 12 of 13 students placed (90%). | |
| Transition from High School 85-1505-04-19-16-H267 District 5 Special Services Kalispell | District 5 will contract with Flathead Industries to provide part-time training for handicapped high school seniors. Students will live part-time in group homes or apartments. Includes planning for after graduation. | 3,870 | 6,783 | 10,653 | Two students placed. | |
| Rural Alternative for Vocational Education Phase IV 85-0703-04-19-16-H268 Northcentral Learning Resources Center Great Falls | This 4th year project has 2 components: 1) to design a basic skill curriculum for employment and independent living for handicapped students, and 2) on-the-job training and cooperative employment in the school and in the rural community. | 35,000 35,723 | 49,991 49,991 | 79,991 85,714 | Evaluation: objectives met. | |
| On-The-Job Training Placement Model for Mentally Handicapped Individuals 85-6271-04-19-16-H269 Association for Retarded Citizens, Seattle, Washington | Project funds will pay for a Job Placement Specialist in Montana to locate placements for on the job training for the mentally handicapped. (18 placements supported by Department of Labor funding.) | 27,183 | 16,750 | 43,933 | Project in operation; no other results reported. | |
| Individualized Video Instruction for Mainstreamed Handicapped Students 85-1203-04-19-16-H270 Anaconda Public Schools | The Industrial Arts teacher at Anaconda High School will purchase videocassettes and projectors to serve as instructional aids for mainstreamed handicapped students. | 4,500 | 5,000 | 9,500 | Materials purchased. | |
| Electronic Typewriter Program Enhancement for the Handicapped 85-2502-04-17-16-H271 Helena High School | Project funds will purchase 2 electronic typewriters and 2 transcribing machines for use with 2 handicapped students in high school Office Procedures I class. | 4,412 | 4,560 | 8,972 | Equipment purchased; evaluation on file. | |

| | | (awarded) | (match) | (total) | (target) | (actual) |
|--|--|---------------------------|------------------------------------|---------------------------|----------------|-------------|
| General School Access 85-6103-04-19-17-H273 Great Falls Vo-Tech Center | Project funds will install automatic door openers for handicapped students at Great Falls Vo-Tech. | 2,350 | 2,350 | 4,700 | n/a | n/a |
| General School Access 85-6103-04-19-17-H274 Billings Vo-Tech center | Project funds will install automatic door openers for handicapped students at Billings Vo-Tech. | 2,350 2,350 | 2,350 Funds not used | 4,700 2,700 | | |
| Project "TEC" (Training, Experience, Careers): 4th Year 85-1203-04-19-16-H275 Anaconda Schools | Project funds will be used to hire a special needs counselor who will develop computer assisted instruction in career and vocational education. (4th year of project.) | 34,644 | 38,029 | 72,673 | 35-40 stud. | 25 stud. |
| | | 33,109.00 | 38,029.00 | 71,138.00 | | |
| SUBTOTAL | | 254,388.00 | 288,593.00 | 542,981.00 | | |
| | | 244,759.39 | 271,737.00 | 516,496.39 | | |

BASIC GRANT
SUBPART 2, SECTION 120

*Includes indirect costs

| CIP | APPRENTICESHIP | DESCRIPTION | GRANT | MATCH | TOTAL BUDGET |
|---------|---|--------------------|----------|--------|-----------------|
| 46.0503 | Pipefitter Apprenticeship Program A 108 D Billings District 2 | 432 hours @ \$8.22 | 3,551.04 | 89,071 | 92,622.04 |
| 48.0506 | Sheet Metal Workers A 112 D Billings District 2 | 432 hours @ \$8.22 | 3,551.04 | 40,797 | 44,348.04 |
| 46.9999 | Ironworkers A 109 D Billings District 2 | 432 hours @ \$8.22 | 3,551.04 | 44,369 | 47,920.04 |
| 48.0506 | Carpentry Apprenticeship A 110 D Billings District 2 | 288 hours @ \$8.22 | 2,367.36 | 23,267 | 25,634.36 |
| 48.0503 | Machinists A 133 D Butte Vo-Tech | 288 hours @ \$8.22 | 2,367.36 | 1,147 | 3,514.36 |
| 48.0506 | Sheet Metal Workers A 134 D Butte Vo-Tech | 144 hours @ \$8.22 | 1,183.68 | 7,208 | 8,391.68 |
| 46.9999 | Ironworkers A 140 D Butte Vo-Tech | 432 hours @ \$8.22 | 3,551.04 | 2,295 | 5,846.04 |
| 48.0506 | Sheet Metal Workers A 117 D Great Falls | 144 hours @ 8.22 | 1,183.68 | 10,763 | 11,946.68 |

| | | | | | |
|----------|--|---------------------|-----------|---------|------------|
| 47.0604 | Auto Mechanics A 118 D Greet Felle | 60 hours @ \$8.22 | 493.20 | 1,713 | 2,206.20 |
| 48.0503 | Mechinists A 119 D Greet Felle | 60 hours @ \$8.22 | 493.20 | 1,994 | 2,487.20 |
| 47.0603 | Auto Body A 120 D Greet Felle | 60 hours @ \$8.22 | 493.20 | 1,147 | 1,640.20 |
| 46.0503 | Plumbers A 1230 Greet Felle | 432 hours @ \$8.22 | 3,551.04 | 20,945 | 24,496.04 |
| 46.0408 | Painters A 124 D Greet Felle | 144 hours @ \$8.22 | 1,183.68 | 4,532 | 5,715.68 |
| 46.0408 | Painters (Statewide) A 141 D Greet Felle | 204 hours @ \$8.22 | 1,676.88 | 1,147 | 2,823.88 |
| 46.0302 | Electricians (Statewide) A 143 D Greet Felle | 720 hours @ \$8.22 | 5,918.40 | 9,710 | 15,628.40 |
| 46.0201 | Carpenters (Statewide) A 101 D Helene District 1 | 1152 hours @ \$8.22 | 9,469.44 | 38,364 | 47,833.44 |
| 49.0202 | Operating Engineers A 105 D Helene District 1 | 432 hours @ \$8.22 | 3,551.04 | 35,235 | 38,786.04 |
| 47.0604 | Auto Body/Mechanics A 142 D Helene District 1 | 144 hours @ \$8.22 | 1,183.68 | 570 | 1,753.68 |
| 47.0501 | Power Plant Operators A 125 D Miles Comm College | 432 hours @ \$8.22 | 3,551.04 | 17,779 | 21,330.04 |
| 47.9999 | Power Plant Mechanics A 126 D Miles Comm College | 432 hours @ \$8.22 | 3,551.04 | 12,302 | 15,853.04 |
| 48.0406 | Sheet Metal Workers A 129 D Hiasoula County High School | 144 hours @ \$8.22 | 1,183.68 | 2,686 | 3,869.68 |
| 46.0503 | Plumbers/Pipefitters A 136 D Hiasoula County High School | 144 hours @ \$8.22 | 1,183.68 | 2,418 | 3,601.68 |
| 46.0201 | Carpentry A 137 D Sallish Kootenai College, Pablo | 144 hours @ \$8.22 | 1,183.68 | 37,073 | 38,256.68 |
| SUBTOTAL | | | 59,973.12 | 406,532 | 466,505.12 |

BASIC GRANT
SUBPART 2, SECTION 120

DISPLACED HOMEMAKER

Computer Training for
Displaced Homemakers
85-6264-01-27-18-DH06A
Gallatin Council on
Health and Drugs
Women in Transition
(Bozeman)

Support Group for Men
in Transition
85-6264-01-27-18-DH06B
Gallatin Council on
Health and Drugs
Women in Transition
(Bozeman)

| DESCRIPTION | GRANT | MATCH | TOTAL BUDGET | TOTAL AWARDED | ACTUAL MATCH | TOTAL PROJECT \$ | TARGET POP. | ACTUAL POP. |
|---|-------|-------|-----------------|------------------|-----------------|---------------------|----------------|----------------|
| Women in transition will provide instruction in word processing on a microcomputer to displaced homemakers (includes recruitment and small grants for child care and transportation). | 3,840 | 5,069 | 8,909 | 3,840.00 | 5,069.00 | 8,909.00 | 400+ stud. | 44 stud. |
| Women in transition will schedule a series of group meetings for unemployed and/or single parent males; (includes job placement and follow-up). | 2,166 | 3,504 | 5,670 | 2,166.00 | 3,504.00 | 5,670.00 | 25 adults | 6 adults |
| (DH05: See Basic Grant, Disadvantaged Project 0287) | | | | | | | | |
| SUBTOTAL | 6,006 | 8,573 | 14,579 | 6,006.00 | 8,573.00 | 14,579.00 | | |

PROGRAM IMPROVEMENT
SUBPART 3, SECTION 130

CURRICULUM DEVELOPMENT

The Computer as a Home
Appliance Tool
85-2502-05-23-16-C625
Capital High School, Helena
Home Economics

Co-Op Handbook (Update)
85-5703-05-23-16-C626
Montana State University
Bozeman (Distributive
Education)

Entrepreneurship
85-6259-05-23-16-C627
Montana Association of
Marketing Educators, Helena
(Distributive Education)

| DESCRIPTION | GRANT | MATCH | TOTAL BUDGET | TOTAL AWARDED | ACTUAL MATCH | TOTAL PROJECT \$ | TARGET POP. | ACTUAL POP. |
|---|-------|--------|-----------------|------------------|-----------------|---------------------|----------------------|----------------|
| Home economics students will be taught to use computers for household management and for home economics-related careers. | 9,000 | 15,355 | 24,355 | 8,986.64 | 15,355.00 | 24,341.64 | 501 stud. | 220 stud. |
| 83.9% of students showed some increase in correct responses. | | | | | | | | |
| The project director will revise and update the co-op handbook used in training teachers of co-op education. | 3,999 | 0 | 3,999 | 3,394.00 | 0 | 3,394.00 | n/a (15-20 coords.) | n/a |
| Handbook revised, Legal documents pending. | | | | | | | | |
| The project will purchase entrepreneurship curriculum materials and distribute them to 25 MDE secondary and postsecondary programs. | 3,200 | 0 | 3,200 | 3,200.00 | 0 | 3,200.00 | n/a (25 instructors) | n/a |
| Materials purchased and distributed to 17 secondary and 3 postsecondary MDE programs. No evaluation. | | | | | | | | |

| | | (awarded) | (match) | (total) | (target) | (actual) |
|--|---|-------------------------------------|---------|-----------|-------------------------|----------------------|
| | | 2,000 | 0 | 2,000 | 75-80 instructors | n/a |
| | MSU, with the assistance of Vo-Ag teachers, will develop four instructional units for secondary Vo-Ag teachers. The units will be published and submitted to GPI for review. | Units not received. | 0 | 2,000 | | |
| | The project will print 500 copies of the new curriculum guide. At 6 regional workshops, industrial education teachers will discuss classroom use of the guide. | 3,500 | 0 | 3,500 | | |
| | MSU will purchase and pilot test the CADDO hardware and software. MSU will then promote CADDO at a series of inservice workshops at selected high schools. | 2,100 | 0 | 2,100 | 120-180 instr. | 106 instr. |
| | The Vo-Tech Center will purchase satellite broadcast equipment and make educational programs available to personnel in local agencies. | 9,701 | 0 | 9,701 | 99 instr. | 8 instr. |
| | University of Montana will facilitate a planning workshop for educators and community leaders in economically depressed areas in western Montana. Participants will propose community programs. | 6,000*** | 0 | 6,000 | 65 instr, admin, other. | not reported |
| | MSU will develop a consumer and home-making curriculum for distribution to Montana home economics teachers. | 10,925*** | 0 | 10,925 | 209 (all H.E. Instr) | 209 (all H.E. Instr) |
| | Curriculum revised, but not according to original plan. | | | | | |
| | | 50,425 | 15,355 | 49,753.48 | 15,355.00 | 65,108.48 |
| | SUBTOTAL | | | 65,780 | | |
| | | ***Section 150, Consumer Homemaking | | | | |

| GUIDANCE | DESCRIPTION | GRANT | MATCH | TOTAL BUDGET |
|--|--|--------|-------|----------------|
| Montana Career Information System 85-5703-06-21-17-6730 Montana University System (Helena) | Project funds will update and maintain the MCIS; provide information to update VECW occupational descriptions; and train MCIS site coordinators. | 40,000 | 0 | 40,000 |
| | Files updated; materials distributed; VECW updated; held training conference for site coordinators. Eval: site coordinators surveyed. | | | 40,000.00 |
| | | | | (6000) (stud?) |
| | | | | 70 MCIS Sites |

PROGRAM IMPROVEMENT
SUBPART 3, SECTION 130

| HANDICAPPED | DESCRIPTION | GRANT | MATCH | TOTAL BUDGET | TOTAL AWARDED | ACTUAL MATCH | TOTAL PROJECT \$ | TARGET POP. 10 stud. | ACTUAL POP. 13 stud. |
|---|---|--------|--------|--------------|---------------|--------------|------------------|----------------------|----------------------|
| Vocational Site Exploratory Program 85-3202-04-19-16-M330 Missoula County High School | Project funds will provide a work-study coordinator for high school junior and senior handicapped students. The coordinator will also teach vocational readiness classes. Training sites will be developed. Students will be trained at identified sites. | 38,040 | 38,750 | 76,790 | 38,040.00 | 39,768.00 | 77,808.00 | | |
| | 12 students placed. | | | | | | | | |
| Accommodation of Special Needs Students in Vocational Classrooms 85-5703-05-19-17-M331 Montana State University Bozeman | MSU will conduct workshops for teachers of handicapped Vo-Ed students. The major project activity is continued development of computer software programs to be used to plan classroom instruction. | 14,861 | 14,861 | 29,722 | 14,229.01 | 23,490.90 | 37,719.91 | n/a | n/a |
| | Workshops: limited success. Refined computer software program. | | | | | | | | |
| Accommodation of Special Needs Learners in Vocational Home Economics Classrooms 85-5703-05-19-17-M332 Montana State University Bozeman | Project funds will develop a vocational home economics component for computer assisted planning system (see H331). | 12,695 | 12,695 | 25,390 | 11,770.64 | 11,777.89 | 23,548.53 | n/a | n/a |
| | Report all objectives met. Software reportedly on file at OPI. | | | | | | | | |
| | SUBTOTAL | 65,596 | 66,306 | 131,902 | 64,039.65 | 75,036.79 | 139,076.44 | | |

PROGRAM IMPROVEMENT
SUBPART 3, SECTION 130

| DISADVANTAGED | DESCRIPTION | GRANT | MATCH | TOTAL BUDGET | TOTAL AWARDED | ACTUAL MATCH | TOTAL PROJECT \$ | TARGET POP. 10 stud. | ACTUAL POP. 13 stud. |
|---|---|--------|--------|--------------|---------------|--------------|------------------|----------------------|----------------------|
| Vocational Agriculture for Montana's Native American Students 85-5703-05-20-17-D376 Montana State University Bozeman | Project funds will be used to prepare instructional units for first year Native American Vo-Ag students. Computer-assisted instructional packages will accompany units. | 23,121 | 23,121 | 46,242 | 22,842.28 | 28,172.73 | 51,015.01 | n/a | n/a |
| | Objectives met. | | | | | | | | |
| Mainstreaming in Distributive Education 85-5703-05-20-17-D377 Montana State University Bozeman | MSU will prepare materials to show how mainstreaming occurs in the distributive education curriculum. MSU will conduct inservice training for vocational teachers. | 21,229 | 21,229 | 42,458 | 21,203.84 | 21,286.97 | 42,490.81 | n/a | n/a |
| | Materials developed. Inservice and A.V. dissemination not yet accomplished. | | | | | | | | |

| | | | | (awarded) | (match) | (total) | (target) | (actual) |
|---|--------|--------|---------|-----------|-----------|------------|----------|--------------|
| Industrial Arts Special Needs for the Economically Disadvantaged 85-1803-05-20-16-0378 Browning High School | 35,645 | 35,645 | 71,290 | 24,781.00 | 9,453.00 | 34,234.00 | ? | 133 students |
| Home Ec. and Business are using materials; Ind. Arts: equipment upgrading only. | | | | | | | | |
| Improvement of Employment Skills 85-2702-05-20-16-0381 Troy High School | 12,000 | 12,000 | 24,000 | 11,999.00 | 16,501.00 | 28,500.00 | 48 stud. | 77 stud. |
| Disadvantaged students will learn to operate a computer to improve keyboarding and employment skills. 8 microcomputers will be purchased. | | | | | | | | |
| Equipment purchased, but some objectives not met by all students. | | | | | | | | |
| SUBTOTAL | 91,995 | 91,995 | 183,990 | 80,826.12 | 75,413.70 | 156,239.82 | | |

BASIC GRANT
SUBPART 4, SECTION 140

| SPECIAL NEEDS | GRANT | MATCH | TOTAL BUDGET | DESCRIPTION | GRANT | MATCH | TOTAL BUDGET | DESCRIPTION |
|---|--------|-------|--------------|--|-----------|-------|--------------|-------------|
| Agriculture Vo-Ed for the Indian Community 85-0317-07-20-16-SD10 Hays-Lodge Pals | 29,638 | 0 | 29,638 | Project funds will provide training in agriculture careers for Indian students. | 29,638 | 0 | 29,621.43 | 40 stud. |
| No final report. | | | | | | | | |
| Improving Business, Home Economics and Vo-Ed at Plenty Coups High School 85-0210-07-20-16-SD11 Pryor High School | 42,741 | 0 | 42,741 | Project funds will update and improve the business, home economics and Vo-Ag programs for Indian students. | 35,087.44 | 0 | 35,087.44 | 20 stud. |
| Courses conducted in all 3 areas. Report all objectives met except the following: occupational experience and teaching business enterprise skills not accomplished. | | | | | | | | |
| SUBTOTAL | 72,379 | 0 | 72,379 | | 64,708.87 | 0 | 64,708.87 | ? |

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TOTAL ~~1,119,159.96~~ ~~1,343,400.12~~ ~~2,462,560.08~~

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| ADDED PROJECTS | DESCRIPTION | GRANT | MATCH | TOTAL BUDGET | TOTAL AWARDED | ACTUAL MATCH | TOTAL PROJECT \$ | TARGET POP. | ACTUAL POP. |
|---|---|--------|-------|--------------|---------------|--------------|------------------|-------------|-------------|
| BASIC GRANT | | | | | | | | | |
| 120 Handicapped: | | | | | | | | | |
| Provide an Interpreter for Students with Hearing Loss. 85-6101-04-19-17-H276 Gr. Falls Vo-Tech Ctr. | Funds will hire an interpreter for 4 deaf students. | 9,284 | 9,362 | 18,646 | 700.00 | 2,356.00 | 3,056.00 | 4 stud. | 1 stud. |
| PROGRAM IMPROVEMENT | | | | | | | | | |
| Sec. 130, Guidance: | | | | | | | | | |
| Ovis Testing Project 85-0805-06-21-16-G732 Big Sandy High School | Administer vocational interest survey to all 9-11 (actually 9-12) grade students. | 514 | 0 | 514 | 511.43 | 0 | 511.43 | 106 stud. | 106 stud. |
| Ovis Testing Project 85-3004-06-21-16-G733 White Sul. Spgs. H.S. | Administer vocational interest survey to 95% of grades 7, 9 and 11. | 664 | 0 | 664 | 498.00 | 0 | 498.00 | 63 stud. | 62 stud. |
| Ovis Testing Project 85-2405-06-21-16-G745 Polson High School | Administer vocational interest survey to all 10 & 11 grade students. | 1,110 | 0 | 1,110 | 852.97 | 0 | 852.97 | 167? stud. | 167 stud. |
| Ovis Testing Project 85-0513-06-21-16-G746 Fromberg High School | Administer vocational interest survey to 90% of 9,10,11 and 12th grade students. | 420 | 0 | 420 | 420.00 | 0 | 420.00 | ? stud. | 75 stud. |
| Ovis Testing Project 85-0702-06-21-16-G747 Great Falls High School | Administer vocational interest test to 75% of 10th grade students. | 4,402 | 0 | 4,402 | 3,607.50 | 0 | 3,607.50 | ? stud. | 762 stud. |
| Career Assessment Center (equip.) 85-6101-06-21-G750 Gr. Falls Vo. Tech | Purchase Valpar International Microcomputer eval. & screening assessment equipment. | 11,000 | - | 11,000 | 10,956.65 | 0 | 10,956.65 | n/a | n/a |
| Ovis Testing Project 85-3403-06-21-16-G749 Park H.S. (Livingston) | Administer vocational interest survey to 90% of 10th grade students. | 854.75 | 0 | 854.75 | 750.61 | 0 | 750.61 | ? stud. | 131 stud. |

Survey administered to more than 90% of 10th grade.
Plan follow-up pending funds.

| ADDED PROJECTS | DESCRIPTION | GRANT | MATCH | TOTAL BUDGET | TOTAL AWARDED | ACTUAL MATCH | TOTAL PROJECT \$ | TARGET POP. | ACTUAL POP. |
|---|--|--------------|------------|--------------|---------------|--------------|------------------|--------------|-------------|
| Subpart 3, Section 130 | | | | | | | | | |
| <u>TEACHER DEVELOPMENT</u> | | | | | | | | | |
| Industrial Education | M.S.U. will conduct 2 inservice training workshops: 1) Operation and service to electrical components of carbureted engines; 2) I.A. professional and technical update "conference." | 4,669.00 | 4,669.00 | 9,338.00 | 4,608.47 | 5,476.72 | 10,085.19 | 45-60 Instr. | 53 Instr. |
| 85-5703-05-24-22-T874 | | | | | | | | | |
| M.S.U. | | | | | | | | | |
| <u>PROGRAM IMPROVEMENT</u> | | | | | | | | | |
| Sect. 130, Guidance | | | | | | | | | |
| Ovis Testing Project | Laurel will administer vocational interest survey to 100% of 10th and 11th graders. | 1,224.00 | 0 | 1,224.00 | 1,153.46 | 0 | 1,153.46 | ? | ? |
| 85-5607-06-21-16-G748 | | | | | | | | | |
| Laurel H.S. | | | | | | | | | |
| <u>GUIDANCE</u> | | | | | | | | | |
| 85-XXXX-06-21-16-G751 | Students at 41 high schools and community colleges will receive career guidance through MCIS, Guidance staff at each will receive training. | 29,623.12 | 0 | 29,623.12 | 27,926.64 | 0 | 27,926.64 | ? | ? |
| MCIS | | | | | | | | | |
| Using the Montana Career Information System in the Career Guidance Process. | | | | | | | | | |
| 85-2706-06-21-16-G744 | Administer Vocational Interest survey to 100% 10th & 11th grade students. | 496.00 | 0 | 496.00 | 496.00 | 0 | 496.00 | ? | ? |
| Ovis Testing Project | Results unknown. | | | | | | | | |
| Lincoln Co. H.S. Eureka | | | | | | | | | |
| <u>TEACHER DEVELOPMENT</u> | | | | | | | | | |
| 85-5704-05-24-22-T867A | U. of M. will plan the 1985 Leadership Conference. | 2,300.00 | 0 | 2,300.00 | 2,226.48 | 0 | 2,226.48 | na | na |
| U. of M. | | | | | | | | | |
| Planning for Leadership Development | Conference was planned. | | | | | | | | |
| | | 66,560.87 | 14,031.00 | 80,591.87 | 54,703.21 | 7,832.72 | 62,540.93 | | |
| | | 1,116,521.71 | 941,149.12 | 2,057,670.83 | 1,047,739.49 | 900,597.91 | 1,948,377.40 | | |
| (TOTALS DO NOT INCLUDE APPRENTICESHIP) | | | | | | | | | |

Institutions involved with project 85-xxxx-06-21-16-G751.

Staff members, primarily the counselors, all participated in the training. Training was accomplished at six sites throughout the state. At the time of the written reports, there were not too many schools reporting the student benefits of the Montana Career Information System. All the cooperating schools did indicate that students would benefit from the training and materials.

| <u>Institution</u> | <u>Approved Amount</u> | <u>Final Expenditure</u> | <u>Students</u> |
|----------------------|------------------------|--------------------------|-----------------|
| Plains HS | 526.16 | 526.16 | |
| Park HS (Livingston) | 834.00 | 834.00 | |
| Conrad HS | 527.72 | 514.22 | 155 |
| Valier HS | 771.50 | -0- | dropped |
| Roundup HS | 1070.00 | 1070.00 | |
| Dull Knife CC | 826.30 | 811.80 | |
| Lincoln Co. HS | 829.16 | 814.66 | |
| Bigfork HS | 775.04 | 771.54 | |
| Belgrade HS | 537.60 | 537.60 | 41 |
| Billings HS | 1877.60 | 1856.00 | |
| Butte East JHS | 801.60 | 801.60 | |
| Hardin HS | 805.00 | 750.00 | 705 |
| Wibaux HS | 808.20 | 808.20 | |
| Fromberg HS | 502.90 | 502.90 | |
| Malta HS | 537.60 | 486.10 | 161 |
| Terry HS | 535.40 | 535.40 | |
| St. Regis HS | 532.10 | -0- | dropped |
| Judith Gap HS | 554.60 | 540.10 | |
| Billings Central HS | 484.20 | 484.20 | |
| Roberts HS | 774.60 | 771.60 | |
| Cut Bank HS | 827.40 | 827.40 | |
| Denton HS | 537.60 | 526.00 | |
| Saco HS | 827.40 | 812.90 | |
| Park City HS | 770.20 | 770.20 | |
| Willow Creek HS | 804.90 | 793.40 | 26 |
| Superior HS | 813.04 | 801.54 | |
| Brockton HS | 799.40 | 799.40 | 10 |
| Peerless HS | 629.28 | 564.00 | 30 |
| Twin Bridges HS | 813.70 | 813.70 | |
| Hobson HS | 535.40 | 523.90 | |
| Chester HS | 759.40 | 748.00 | |
| Stevensville HS | 533.20 | 521.70 | |
| Custer HS | 785.70 | 785.70 | 32 |
| Rosebud HS | 553.50 | 538.50 | |
| Great Falls HS | 1042.10 | 1025.00 | |
| Victor HS | 811.72 | 800.22 | 17 |
| Lodge Grass HS | 806.00 | 806.00 | |
| Salish-Kootenai CC | 759.20 | 755.60 | |
| Winnett HS | 814.80 | 814.00 | |
| Florence-Carlton HS | 489.90 | 489.90 | |
| TOTAL: | 29,623.12 | 27,926.64 | 1077 |

